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Specifications for Concrete Breaking Machine

- 1) The machine must have fully automatic operation; it must be able to automatically set the pre-load pressure on a specimen, as well as automatically apply the load pressure to the specimen, all without the need for an individual to approximate proper load values.
- 2) The machine must be able to test the following specimens: high-strength concrete and concrete cylinders of 6" x 12" dimensions.
- 3) The machine must be accurate to $\pm 1\%$ throughout its operational range. Additionally, it must be capable of applying at least 500,000 lbf pressure accurately for testing high-strength compression samples.
- 4) The machine must be readable in U.S. customary units (with additional metric units acceptable).
- 5) A means of connecting to a desk-top computer or a printer must be included.
- 6) The bottom platen of the load frame should be no lower than 36" off the floor to facilitate easy insertion of samples for testing.
- 7) Training and calibration services must be readily available to the division as needed.
- 8) The machine must have a life expectancy of at least 10-15 years of service under normal usage.
- 9) The machine must have a minimum of a two-year warranty, parts and labor, for repair of defects.
- 10) The machine must be delivered to and fully set up, ready for use, at the Materials Section Concrete Lab, First Division, Guntersville, AL

A machine meeting these criteria would be best suited for use by the Materials Section as a replacement to our existing machine.

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